

San Diego IRWM Program's DAC Planning Grant

Nelson Sloan Quarry Restoration Planning and Environmental Review Project

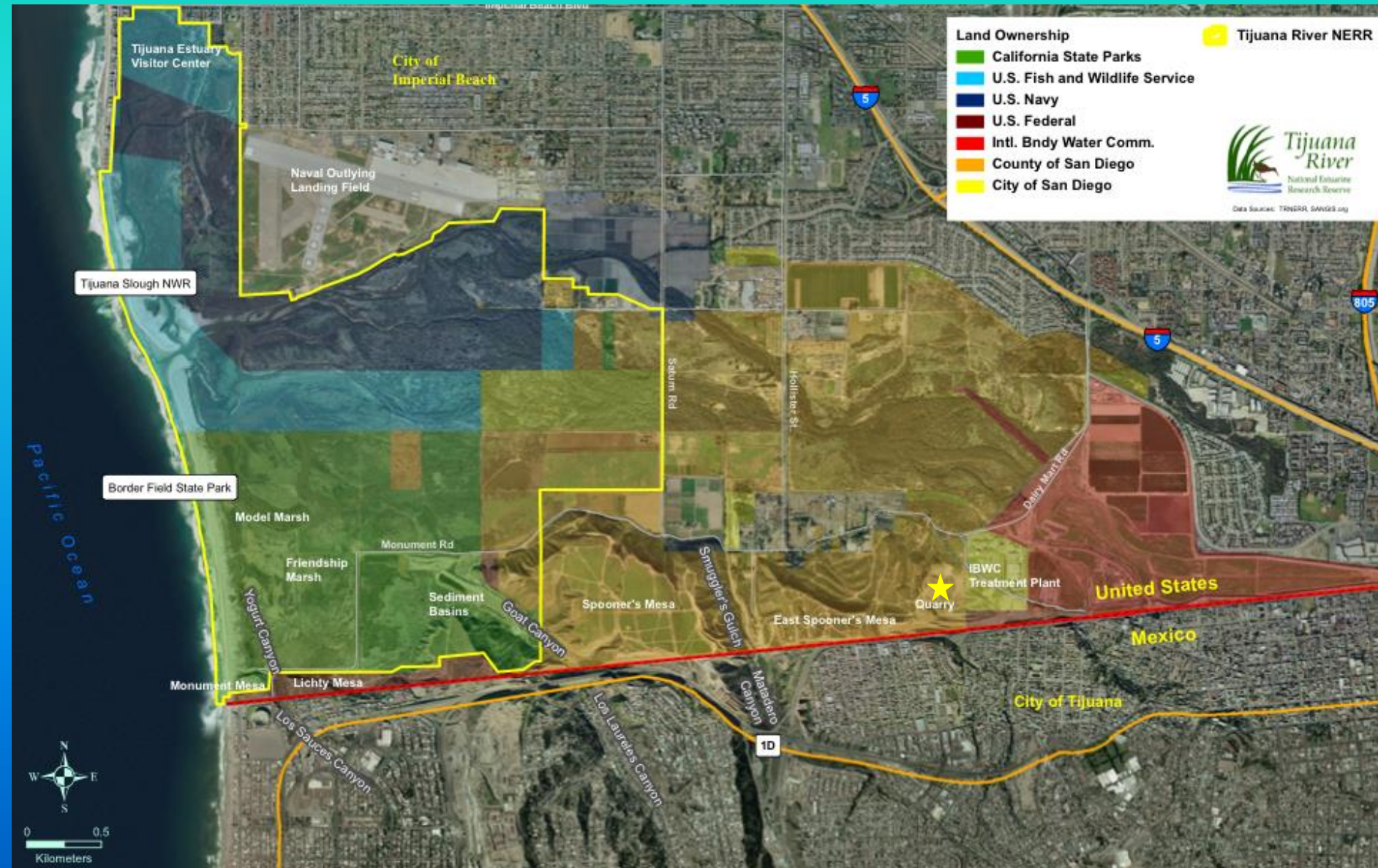
TRVRT-Border 2020

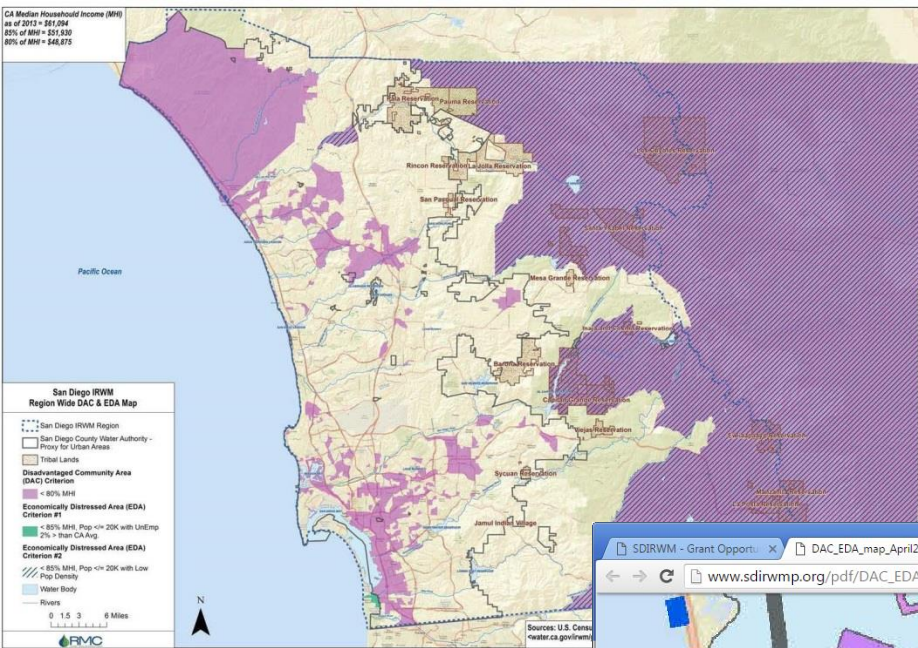
July 28, 2016



California Department of
Parks and Recreation

Project Location

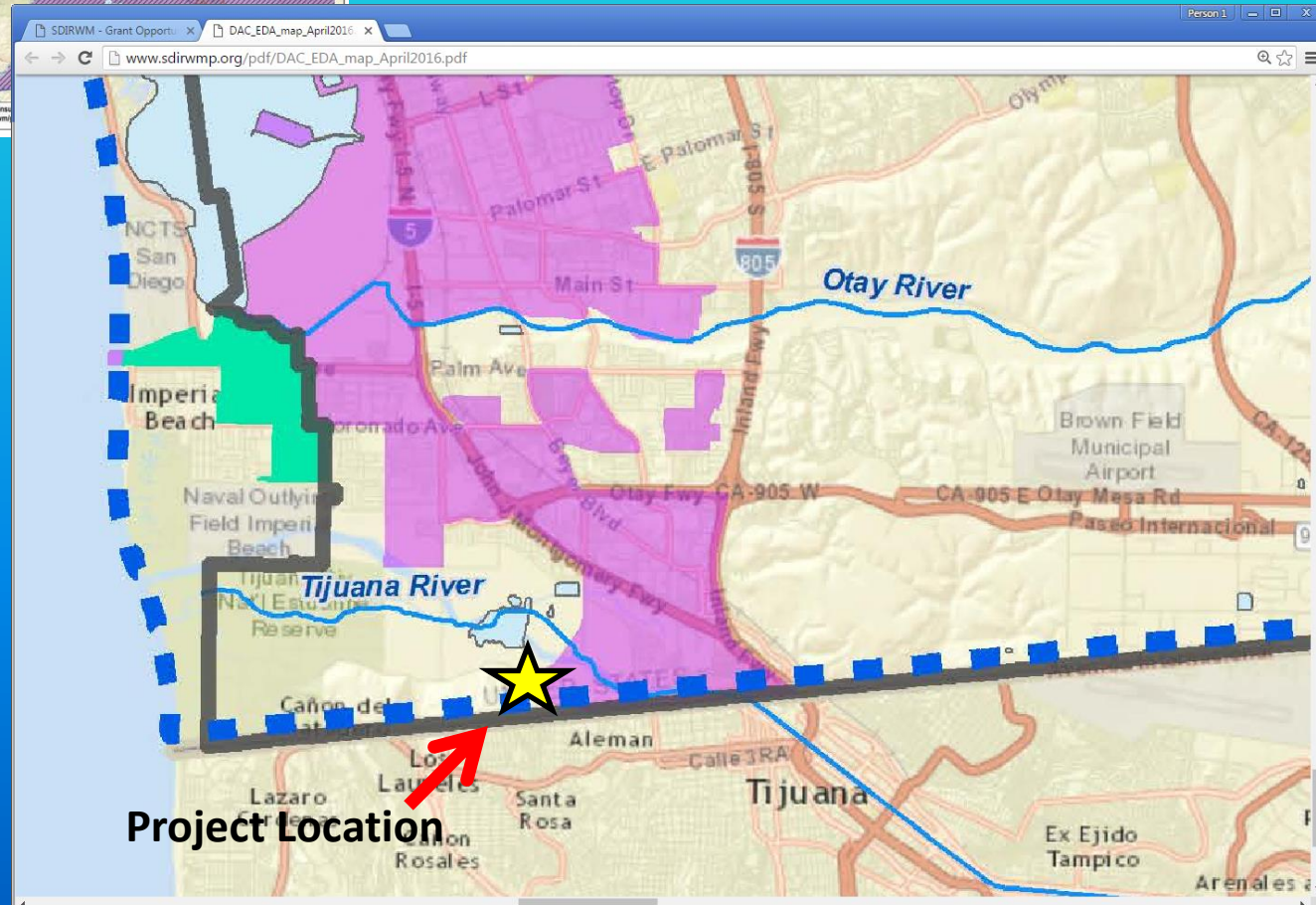




Project Location

DAC, EDAs in Project Area

- City of Imperial Beach
- Otay Mesa-Nestor Community Planning Areas
- San Ysidro Community Planning area



Background

- If funded, Project will provide the final planning elements needed for restoration of the Nelson Sloan Quarry through beneficial use of sediments dredged from the Tijuana River Valley.
- If funded, Project will provide protection from catastrophic flooding, it will improve habitat quality, and promote a healthy riverine environment for public recreation.
- Project has broad support, and a strong history of planning and analysis

Background

- Nelson Sloan Quarry project is the keystone project for a healthy and safe Tijuana River Valley.
- The Project enables cost-effective sediment management and therefore facilitates:
 - Flood control within the valley and adjacent neighborhoods
 - Protection of high quality natural resources and recreational opportunities

Nelson Sloan Quarry

A local abandoned quarry with beneficial re-use opportunity for local sediments
Estimated 2.3 million cubic yard capacity



Goat Canyon Sediment Export costs

- \$31/cy- Otay Landfill*
- \$31/cy- Construction site**
- \$20/cy- Nelson Sloan Quarry*

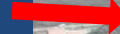
Benefits

- Significant cost savings
- Improved endangered species habitat
- Border Patrol and public safety
- Reduced pressure on landfill
- Reduced carbon emissions

Challenges

- Closed to use
- No Lead Agency
- No Environmental review
- No dedicated funding
- Long-term commitment
- Liabilities not fully assessed

*Previously Restored
Fenton Quarry*



Fenton Quarry- successful restoration with local sediments

Nelson Sloan Quarry

Current Plans and Studies

- Nelson Sloan Quarry Reclamation Plan and Conditional Use Permit (City of San Diego; 1982)
- Land Use Options for the Nelson Sloan Quarry (City of San Diego; URS Corp; 2010)
- Nelson Sloan Management and Operations Plan and Cost Analysis (County of San Diego; AECOM; 2016)

Future Sediment Disposal Needs All Tijuana River Valley Partners 2016-2036

- Friendship Marsh (SWIA): 1,700,000cy
- CA State Parks: 800,000cy
- City of San Diego: 250,000cy
- Federal (IBWC): 110,000cy
- County of San Diego: 83,000cy

Estimated Cost Savings through Nelson Sloan Quarry Project*

Priority Project	20 year sediment disposal estimate	Cost at Otay Landfill	Cost at Nelson Sloan Quarry	Savings
Goat Canyon Sediment Basins	850,000	\$26,622,000	\$16,779,000	\$9,843,000
Tijuana Estuary Tidal Restoration Program/Friendship Marsh Restoration	1,700,000	\$53,244,000	\$33,558,000	\$19,686,000
Smuggler's Gulch	48,000	\$1,503,360	\$947,520	\$555,840
Pilot Channel	250,000	\$7,830,000	\$4,935,000	\$2,895,000
Tijuana River Main Channel Flood Control Project	75,000	\$2,349,000	\$1,480,500	\$868,500
Brown's Fill Debris and Soil Removal	35,000	\$1,096,200	\$690,900	\$405,300

Otay Landfill = \$31.32/cy

Nelson Sloan Quarry = \$19.74/cy

*Values taken from Nelson Sloan Management and Operations Plan and Cost Analysis (2016)

Grant Application Budget

	Cost
Contracts	\$800,000.00
EIR/EIS, Associated Studies and Plans	\$800,000.00
Final Design	\$50,000.00
Permits	\$20,000.00
Meeting Facilitation and Translation services	\$20,000.00
Personnel	\$380,016.00
Project Management and Contract Oversight	\$190,008.00
Coordinate Tijuana River Valley Recovery Team	\$95,004.00
Coordinate Planning: Pollution Control, Habitat Restoration, and Public Access Projects	\$95,004.00
Supplies: Printing, meeting venues, etc	\$15,000.00
Travel: Vehicle, airfare, hotel, parking	\$10,000.00
Indirect: CA State Parks negotiated rate	\$181,302.24
Total Project	\$1,476,318.24